

COMPLETE LISTING OF THE CLAIMS

Please cancel claims 1-21. Please add new claims 22-30 as indicated below.

Claims 1-21 (canceled).

22. (New) A method for beamforming by a base station, the method comprising:
determining whether a mobile station has reported position information; and
when the mobile station has reported the position information, determining the number
and the direction of beams using information supplied from a predetermined multipath database
according to the position information.

23. (New) The method of claim 22, wherein the multipath database is created from
measurements made by driving the mobile station through the coverage area of the base station
and logging mobile position and angle of arrival of the energy.

24. (New) The method of claim 22, wherein the multipath database is created from
analysis of the surroundings in the coverage area of the base station.

25. (New) A base station comprising:
means for determining whether a mobile station has reported position information; and
means for determining the number and the direction of beams using information supplied
from a predetermined multipath database according to the position information, when the mobile
station has reported the position information.

26. (New) The base station of claim 25, wherein the multipath database is created
from measurements made by driving the mobile station through the coverage area of the base
station and logging mobile position and angle of arrival of the energy.

27. (New) The method of claim 25, wherein the multipath database is created from
analysis of the surroundings in the coverage area of the base station.

28. (New) A base station comprising:
a system processor configured to determine whether a mobile station has reported position information; and
a spatial processing unit configured to determine the number and the direction of beams using information supplied from a predetermined multipath database according to the reported position information.

29. (New) The base station of claim 28, wherein the multipath database is created from measurements made by driving the mobile station through the coverage area of the base station and logging mobile position and angle of arrival of the energy.

30. (New) The method of claim 28, wherein the multipath database is created from analysis of the surroundings in the coverage area of the base station.